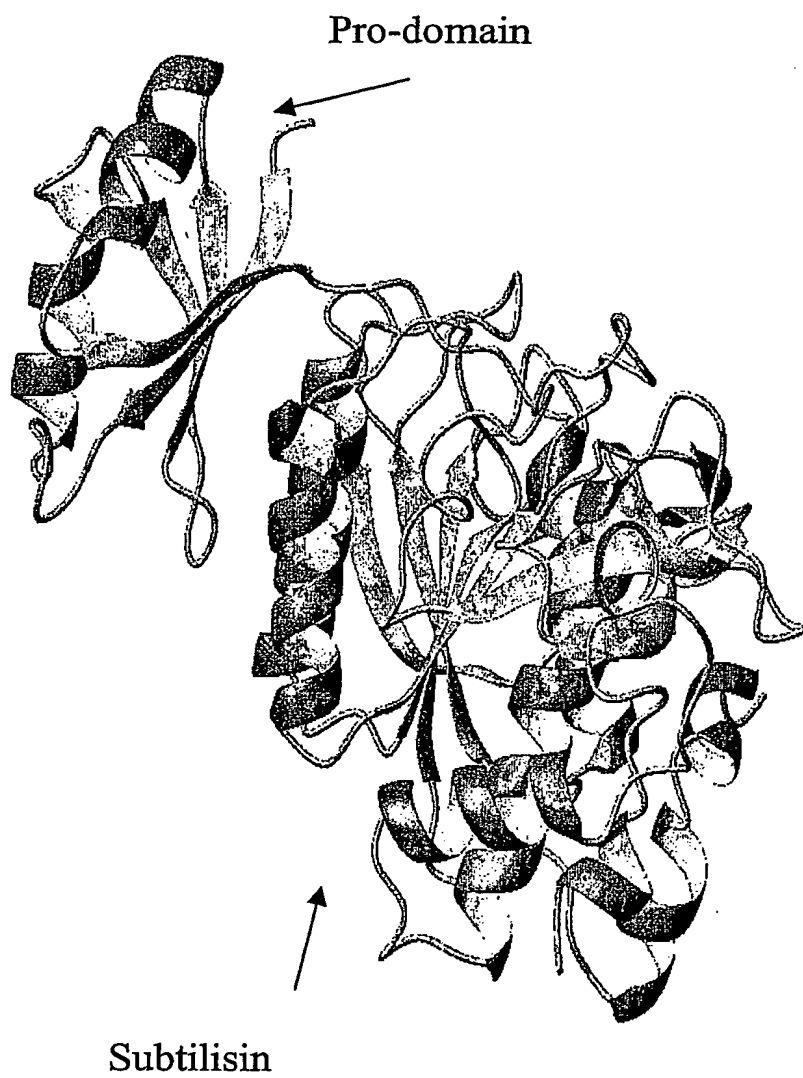


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Figure 1

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Ala	Gln	Ser	Val	Pro	Tyr	Gly	Val	Ser	Gln	Ile	Lys	Ala	Pro	Ala	Leu
1				5					10					15	
His	Ser	Gln	Gly	Tyr	Thr	Gly	Ser	Asn	Val	Lys	Val	Ala	Val	Ile	Asp
		20					25						30		
Ser	Gly	Ile	Asp	Ser	Ser	His	Pro	Asp	Leu	Lys	Val	Ala	Gly	Gly	Ala
	35					40						45			
Ser	Met	Val	Pro	Ser	Glu	Thr	Asn	Pro	Phe	Gln	Asp	Asn	Asn	Ser	His
	50					55					60				
Gly	Thr	His	Val	Ala	Gly	Thr	Val	Ala	Ala	Leu	Asn	Asn	Ser	Ile	Gly
65					70					75					80
Val	Leu	Gly	Val	Ala	Pro	Ser	Ala	Ser	Leu	Tyr	Ala	Val	Lys	Val	Leu
				85					90					95	
Gly	Ala	Asp	Gly	Ser	Gly	Gln	Tyr	Ser	Trp	Ile	Ile	Asn	Gly	Ile	Glu
		100						105					110		
Trp	Ala	Ile	Ala	Asn	Asn	Met	Asp	Val	Ile	Asn	Met	Ser	Leu	Gly	Gly
		115				120						125			
Pro	Ser	Gly	Ser	Ala	Ala	Leu	Lys	Ala	Ala	Val	Asp	Lys	Ala	Val	Ala
	130					135					140				
Ser	Gly	Val	Val	Val	Val	Ala	Ala	Ala	Gly	Asn	Glu	Gly	Thr	Ser	Gly
145					150					155					160
Ser	Ser	Ser	Thr	Val	Gly	Tyr	Pro	Gly	Lys	Tyr	Pro	Ser	Val	Ile	Ala
				165					170					175	
Val	Gly	Ala	Val	Asp	Ser	Ser	Asn	Gln	Arg	Ala	Ser	Phe	Ser	Ser	Val
		180						185					190		
Gly	Pro	Glu	Leu	Asp	Val	Met	Ala	Pro	Gly	Val	Ser	Ile	Gln	Ser	Thr
	195						200					205			
Leu	Pro	Gly	Asn	Lys	Tyr	Gly	Ala	Tyr	Asn	Gly	Thr	Ser	Met	Ala	Ser
	210					215					220				
Pro	His	Val	Ala	Gly	Ala	Ala	Ala	Leu	Ile	Leu	Ser	Lys	His	Pro	Asn
225					230					235					240
Trp	Thr	Asn	Thr	Gln	Val	Arg	Ser	Ser	Leu	Glu	Asn	Thr	Thr	Thr	Lys
				245					250					255	
Leu	Gly	Asp	Ser	Phe	Tyr	Tyr	Gly	Lys	Gly	Leu	Ile	Asn	Val	Gln	Ala
		260						265					270		
Ala	Ala	Gln													
		275													

Figure 2

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TABLE 1

	S149	S160	S188	S189	S190	S191	S193	S194	S196	S197	S198	S199	S201	S202
Q2K	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S3C	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P5S	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S9A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I31L	X	X	X	X	X	X	X	X	X	X	X	X	X	X
K43N	X	X	X	X	X	X	X	X	X	X	X	X	X	X
M50F	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A73L	X	X	X	X	X	X	X	X	X	X	X	X	X	X
75-83	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E156S	X	X	X	X	X	X	X	X	X	X	X	X	X	X
G166S	X	X	X	X	X	X	X	X	X	X	X	X	X	X
G169A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S188P	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Q206C	X	X	X	X	X	X	X	X	X	X	X	X	X	X
N212G	X	X	X	X	X	X	X	X	X	X	X	X	X	X
K217L	X	X	X	X	X	X	X	X	X	X	X	X	X	X
N218S	X	X	X	X	X	X	X	X	X	X	X	X	X	X
T254A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Q271E	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Y104A		X	X	X	X	X	X	X	X	X	X	X	X	X
G128S		X	X	X	X	X	X	X	X	X	X	X	X	X
L126I														
S166G							X					X	X	X
N155L			X											
D32A				X									X	
D32S					X									
D32V									X			X		
D32T										X				
D32G											X			
N155Q						X								
S221A								X						X

Figure 3

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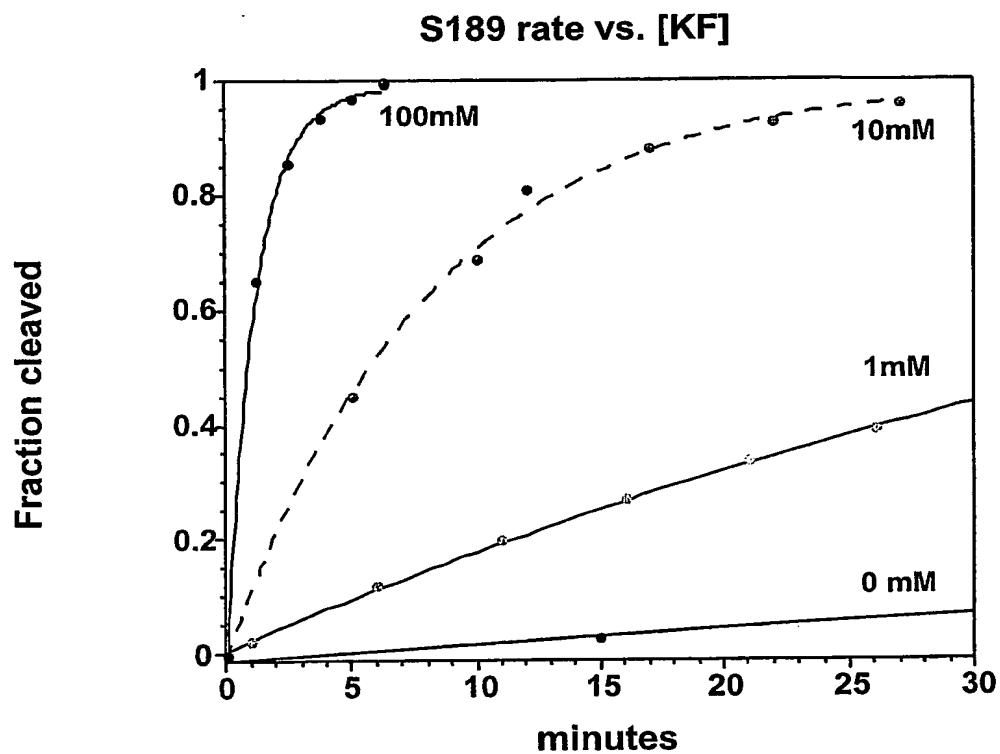


Figure 4

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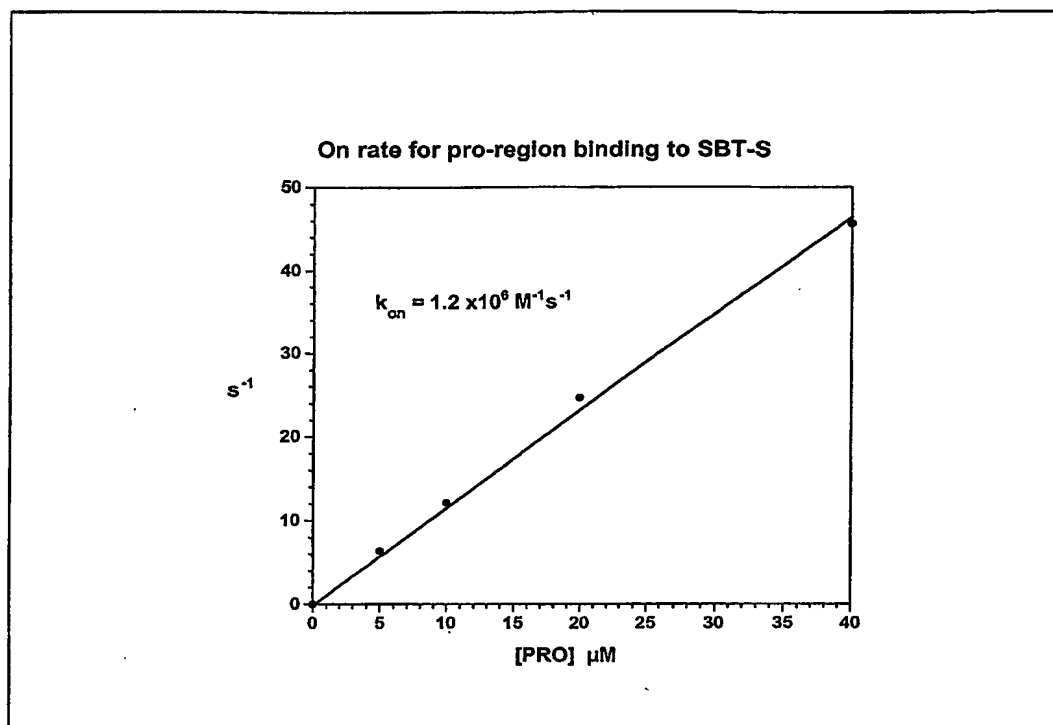


Figure 5

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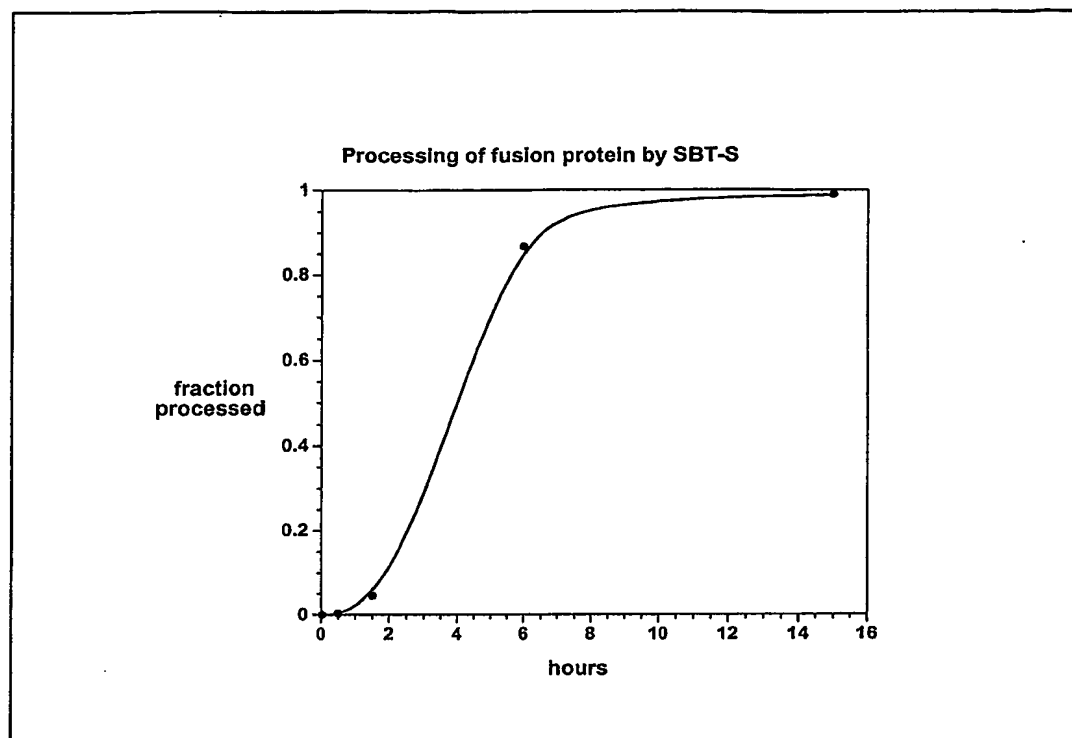
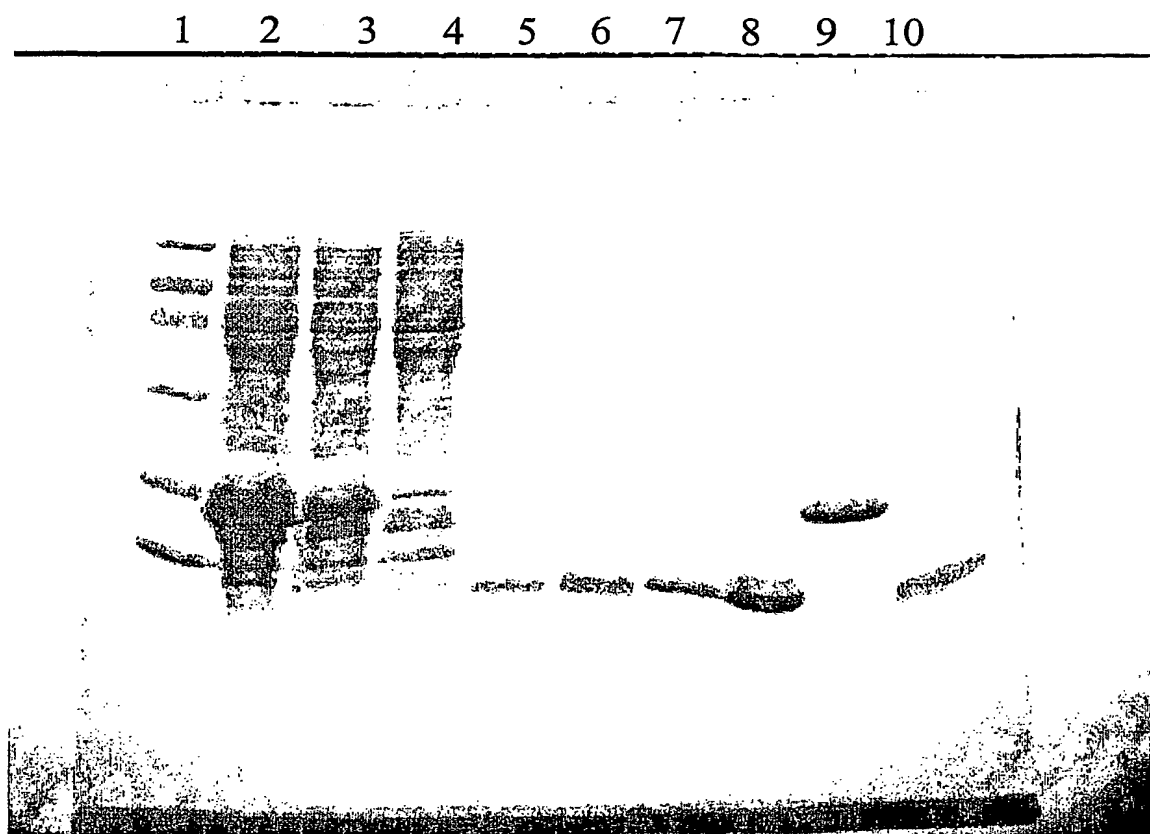


Figure 6

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Figure 7

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Lane 1 2 3 4 5 6 7 8 9 10

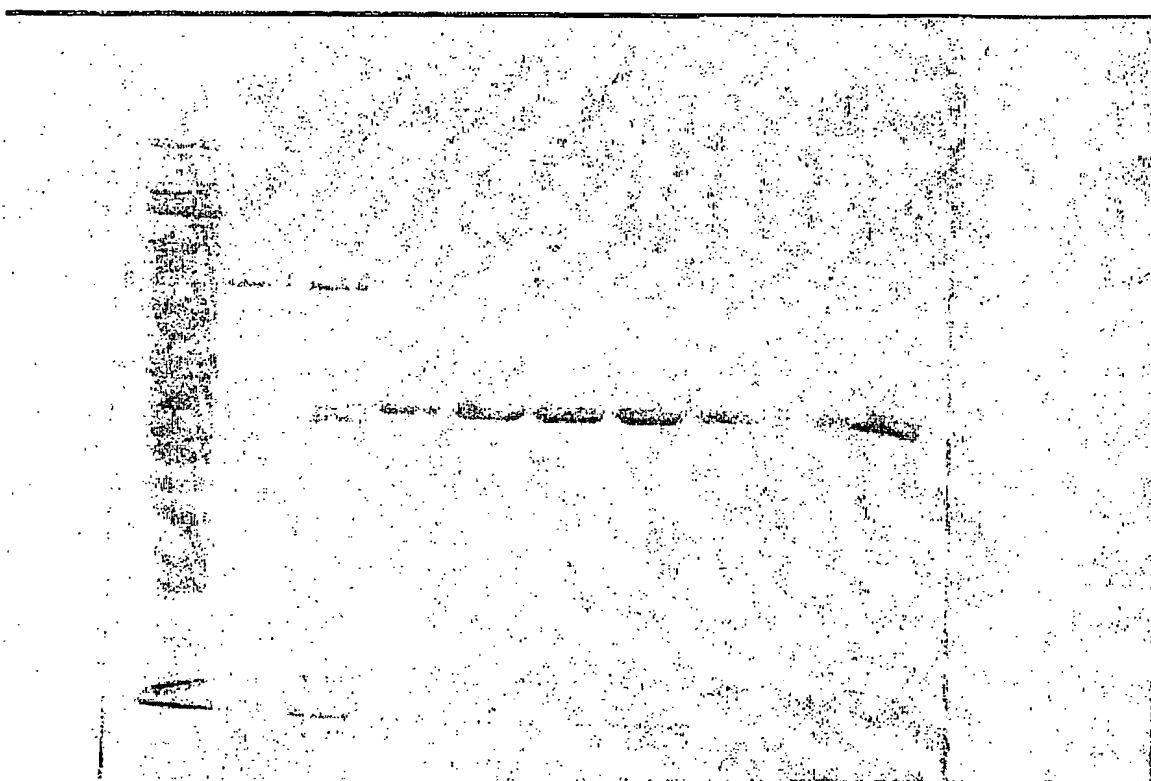
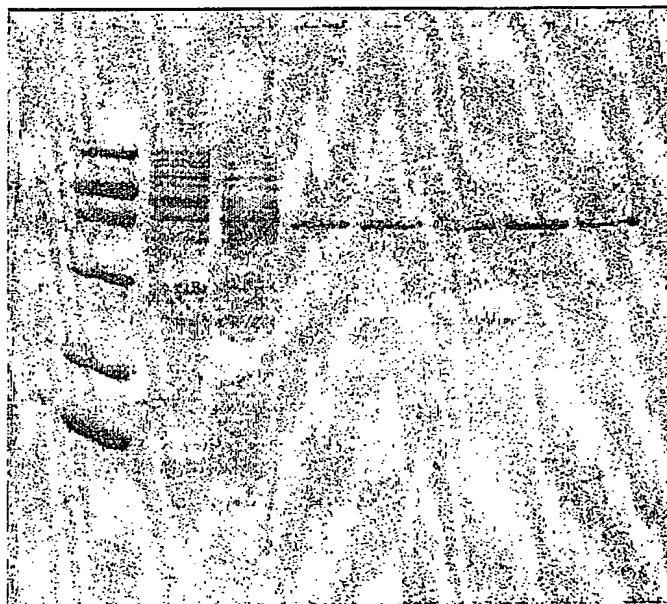


Figure 8

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CDC6



DNA replication factor
379 aa

Methanothermobacter
thermautotrophicus

Figure 9

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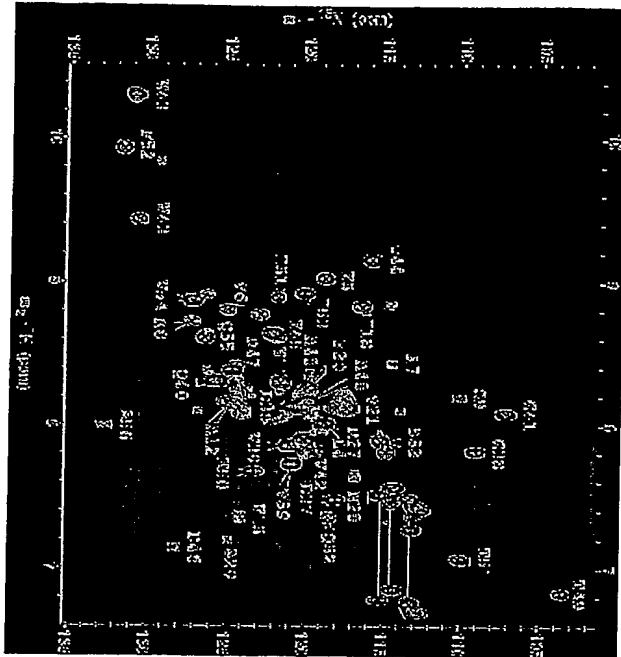


Figure 10 A

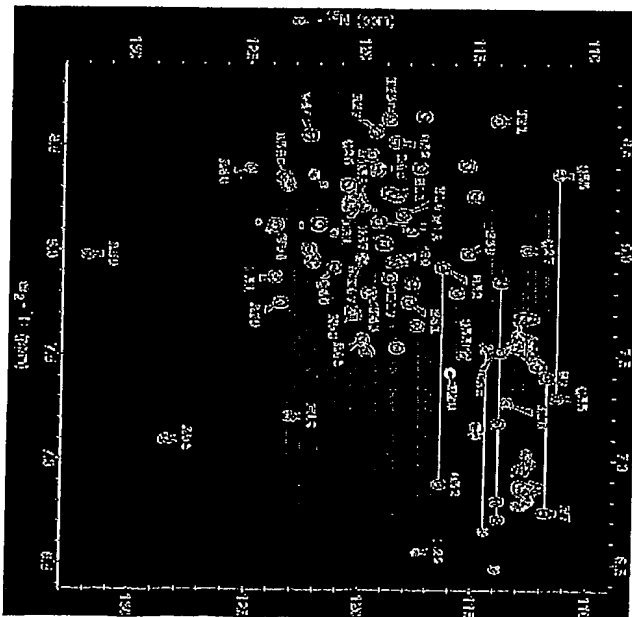


Figure 10 B

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Absorbance 0.2 cm path flow cell

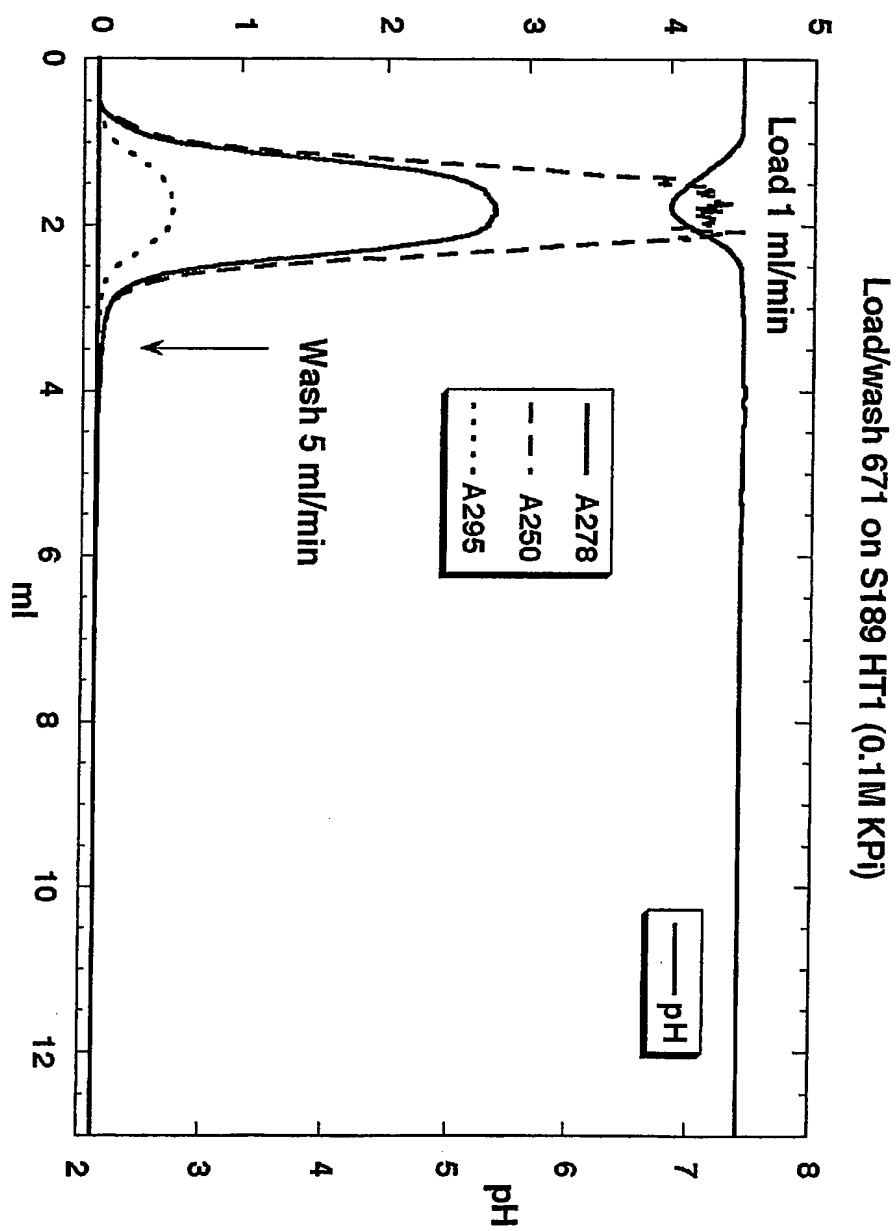


Figure 11

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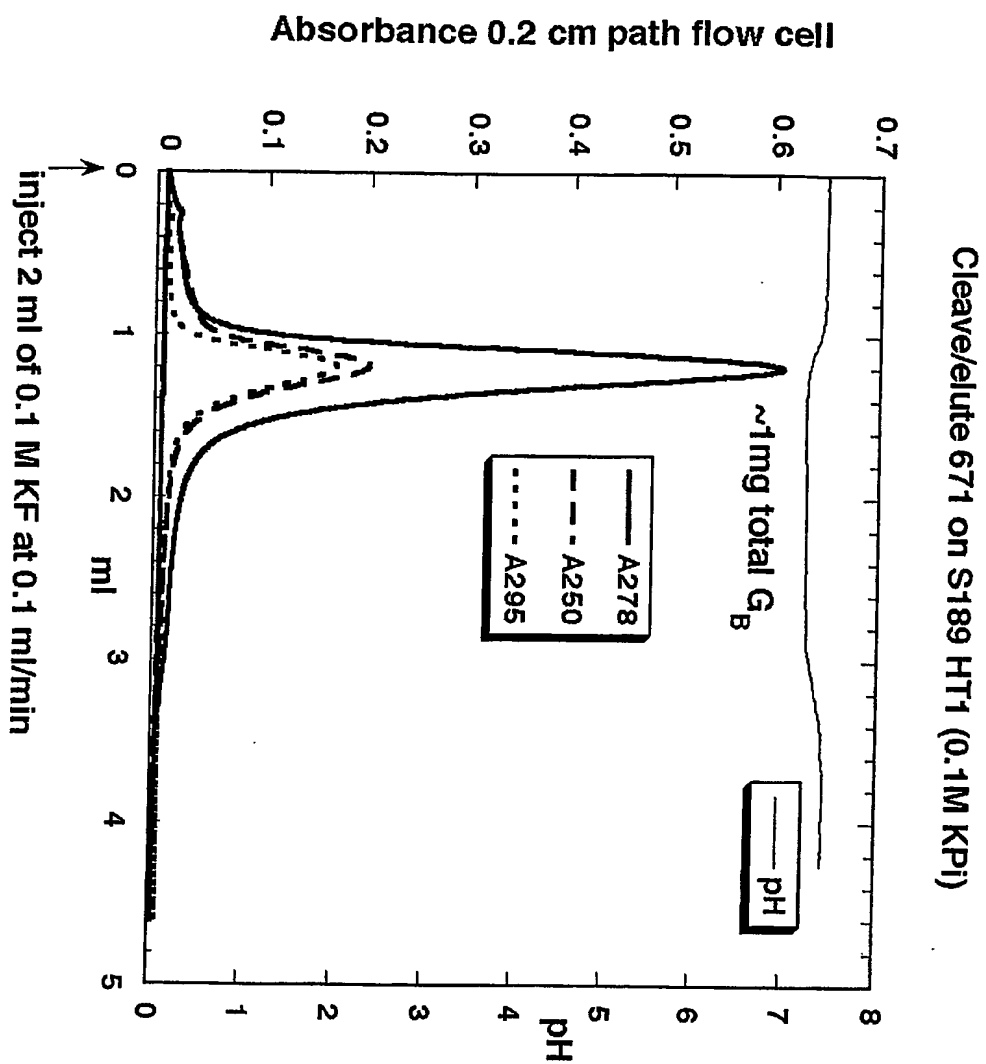


Figure 12

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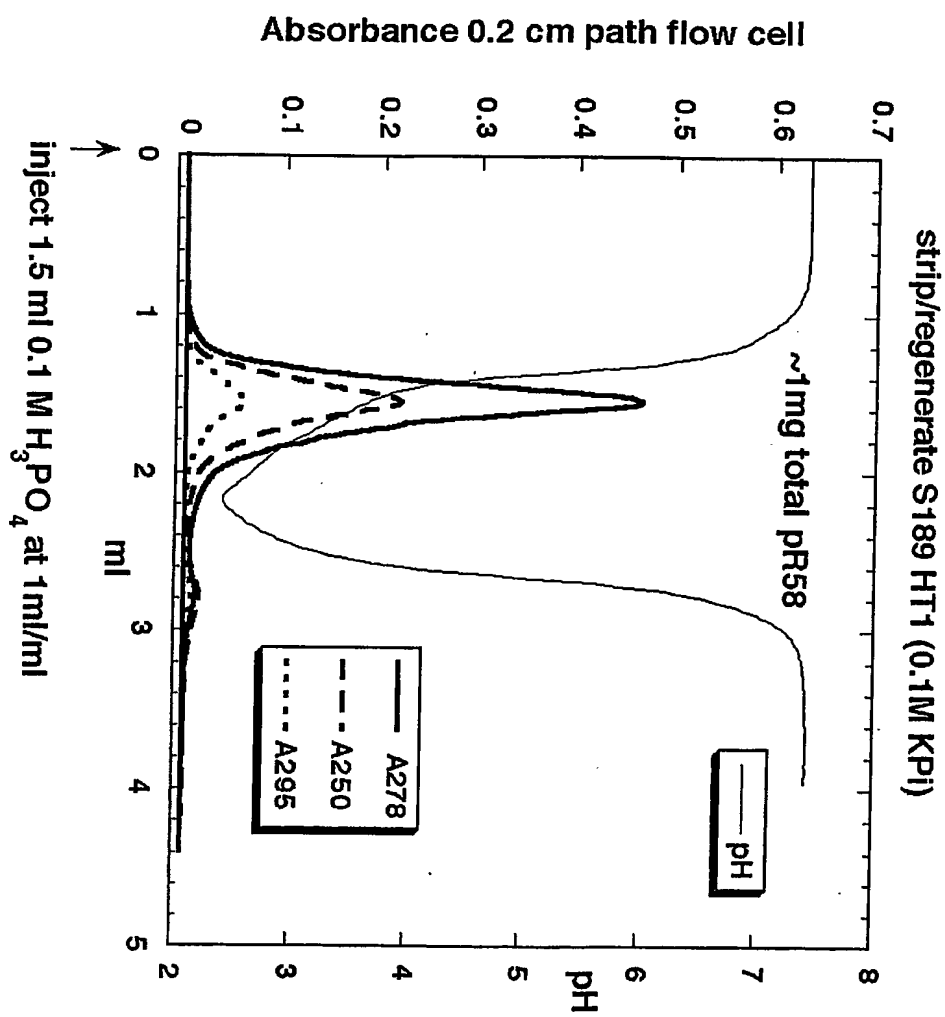


Figure 13

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Lane 1 2 3 4 5 6 7



Figure 14

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